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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of 7

COMPLETE IF KNOWN

Application Number	10/531,124
Filing Date	April 11, 2005
First Named Inventor	WANG, Lai-Xi
Art Unit	1648
Examiner Name	Unassigned
Attorney Docket Number	4115-189

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/NK/	AA	Mascola, J. R.; Snyder, S. W.; Weislow, O. S.; Belay, S. M.; Belshe, R. B.; Schwartz, D. H.; Clements, M. L.; Dolin, R.; Graham, B. S.; Gorse, G. J.; Keefer, M. C.; McElrath, M. J.; Walker, M. C.; Wagner, K. F.; McNeil, J. G.; McCutchan, F. E.; Burke, D. S. Immunization with envelope subunit vaccine products elicits neutralizing antibodies against laboratory-adapted but not primary isolates of human immunodeficiency virus type 1. <i>J Infect Dis</i> 1996, 173, 340-348.	
	AB	Alcott, T. C.; Betake, F. R.; Burke, D. S.; Redfield, R. R.; Bird, D. L. Lack of induction of antibodies specific for conserved, discontinuous epitopes of HIV-1 envelope glycoprotein by candidate AIDS vaccines. <i>J Immunol</i> 1995, 155, 4100-4110.	
	AC	Schwartz, D. H.; Gorse, G.; Clements, M. L.; Belshe, R.; Izu, A.; Duliege, A. M.; Berman, P.; Twaddell, T.; Stablein, D.; Spoto, R.; et al. Induction of HIV-1-neutralizing and syncytium-inhibiting antibodies in uninfected recipients of HIV-1IIIB rgp120 subunit vaccine. <i>Lancet</i> 1993, 342, 69-73.	
	AD	Burton, D. R. A vaccine for HIV type 1: the antibody perspective. <i>Proc Natl Acad Sci U SA</i> 1997, 94, 10018-10023.	
	AE	Wyatt, R.; Sodroski, J. The HIV-1 envelope glycoproteins: fusogens, antigens, and immunogens. <i>Science</i> 1998, 280, 1884-1888.	
	AF	Sattentau, Q. J.; Moulard, M.; Brivet, B.; Botto, F.; Guillemot, J. C.; Mondor, I.; Pognard, P.; Ugolini, S. Antibody neutralization of HIV-1 and the potential for vaccine design. <i>Immunol Lett</i> 1999, 66, 143-149.	
	AG	Nabel, G. J.; Challenges and opportunities for development of an AIDS vaccine. <i>Nature</i> 2001, 410, 1002-1007.	
	AH	Burton, D. R.; Pyati, J.; Koduri, R.; Sharp, S. J.; Thornton, O. B.; Parren, P. W.; Sawyer, L. S.; Hendry, R. M.; Dunlop, N.; Nara, P. L.; et al. Efficient neutralization of primary isolates of HIV-1 by a recombinant human monoclonal antibody. <i>Science</i> 1994, 266, 1024-1027.	
	AI	Trkola, A.; Purtscher, M.; Muster, T.; Ballaun, C.; Buchacher, A.; Sullivan, N.; Srinivasan, K.; Sodroski, J.; Moore, J. P.; Katinger, H.; Human monoclonal antibody 2G12 defines a distinctive neutralization epitope on the gp120 glycoprotein of human immunodeficiency virus type 1. <i>J Virol</i> 1996, 70, 1100-1108.	
↓	AJ	Conley, A. J.; Kessler, J. A.; 2nd; Boots, L. J.; Tung, J. S.; Arnold, B. A.; Keller, P. M.; Shaw, A. R.; Emimi, E. A. Neutralization of divergent human immunodeficiency virus type 1 variants and primary isolates by IAM-41-2F5, an anti-gp41 human monoclonal antibody. <i>Proc. Natl. Acad. Sci. U & A</i> 1994, 91, 3348-3352.	
/NK/	AK	Zwick, M. B.; Labrijn, A. F.; Wang, M.; Spenlehauer, C.; Saphire, E. O.; Binley, J. M.; Moore, J. P.; Stiegler, G.; Katinger, H.; Burton, D. R.; Parren, P. W. Broadly neutralizing antibodies targeted to the membrane-proximal external region of human immunodeficiency virus type 1 glycoprotein gp41. <i>J Virol</i> 2001, 75, 10892-10905.	

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/NK/	AL	Mascola, J. R.; Stiegler, G.; VanCott, T. C.; Katinger, H.; Carpenter, C. B.; Hanson, C. E.; Beary, H.; Hayes, D.; Frankel, S. S.; Birx, D. L.; Lewis, M. G.; Protection of macaques against vaginal transmission of a pathogenic HIV- 1/SIV chimeric virus by passive infusion of neutralizing antibodies. <i>Nat Med</i> 2000, 6,207-210.	
	AM	Baba, T. W.; Liska, V.; Hofmann-Lehmann, R.; Vlasak, J.; Xu, W.; Ayeahunie, S.; Cavacini, L. A.; Posner, M. R.; Katinger, H.; Stiegler, G.; Bernacky, B. J.; Rizvi, T.A.; Schmidt, R.; Hill, L. R.; Keeling, M. E.; Lu, Y.; Wright, J. E.; Chou, T. C.; Ruprecht, R. M. Human neutralizing monoclonal antibodies of the IgG1 subtype protect against mucosal simian-human immunodeficiency virus infection. <i>Nat Med</i> 2000, 6, 200-206.	
	AN	DeVico, A.; Silver, A.; Thronton, A. M.; Sarngadhran, M. G.; Pal, R. Covalently crosslinked complexes of human immunodeficiency virus type 1 (HIV-1) gp120 and CD4 receptor elicit a neutralizing immune response that includes antibodies selective for primary virus isolates. <i>Virology</i> 1996, 218,258-263.	
	AO	LaCasse, R. A.; Follis, K. E.; Trahey, M.; Scarborough, J. D.; Littman, D. R.; Nunberg, J. H. Fusion-competent vaccines: broad neutralization of primary isolates of HIV. <i>Science</i> 1999, 283, 357-362.	
	AP	Leonard, C. K.; Spellman, M. W.; Riddle, L.; Harris, R. J.; Thomas, J. N.; Gregory, T. J. Assignment of intrachain disulfide bonds and characterization of potential glycosylation sites of the type 1 recombinant human immunodeficiency virus envelope glycoprotein (gp120) expressed in Chinese hamster ovary cells. <i>J Biol Chem</i> 1990, 265, 10373-10382.	
	AQ	Mizuuchi, T.; Matthews, T. J.; Kato, M.; Hamako, J.; Titani, K.; Solomon, J.; Feizi, T. Diversity of oligosaccharide structures on the envelope glycoprotein gp120 of human immunodeficiency virus 1 from the lymphoblastoid cell line H9. Presence of complex-type oligosaccharides with bisecting N- acetylglucosamine residues. <i>J Biol Chem</i> 1990, 265, 8519-8524.	
	AR	Geyer, H.; Holschbach, C.; Hunsmann, G.; Schneider, J. Carbohydrates of human immunodeficiency virus. Structures of oligosaccharides linked to the envelope glycoprotein 120. <i>J Biol Chem</i> 1988,263, 11760-11767.	
	AS	Zhu, X.; Borchers, C.; Bienstock, R. J.; Tomer, K. B. Mass spectrometric characterization of the glycosylation pattern of HIV- gp120 expressed in CHO cells. <i>Biochemistry</i> 2000, 39,11194-11204.	
	AT	Kwong, P. D.; Wyatt, R.; Robinson, J.; Sweet, R. W.; Sodroski, J.; Hendrickson, W. A. Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody. <i>Nature</i> 1998,393, 648-659.	
✓	AU	Wyatt, R.; Kwong, P. D.; Desjardins, E.; Sweet, R. W.; Robinson, J.; Hendrickson, W. A.; Sodroski, J. G. The antigenic structure of the HIV gp120 envelope glycoprotein. <i>Nature</i> 1998,393, 705-711.	
/NK/	AV	Gerencer, M.; Barrett, P. N.; Kistner, O.; Mitterer, A.; Dömer, F. Natural IgM antibodies in baby rabbit serum bind high-mannose glycans on HIV type 1 glycoprotein 120/160 and activate classic complement pathway. <i>AIDS Res Hum Retroviruses</i> 1998, 14, 599-605.	

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/NK/	AW	Arendrup, M.; Sonnerborg, A.; Svennerholm, B.; Akerblom, L.; Nielsen, C.; Clausen, H.; Olofsson, S.; Nielsen, J. O.; Hansen, J. E. Neutralizing antibody response during human immunodeficiency virus type 1 infection: type and group specificity and viral escape. <i>J Gen Virol</i> 1993, 74, 855-863.	
	AX	Hansen, J. E.; Nielsen, C.; Clausen, H.; Mathiesen, L. R.; Nielsen, J. O. Effect of anti-carbohydrate antibodies on HIV infection in a monocytic cell line (U937). <i>Antiviral Res</i> 1991, 16, 233-242.	
	AY	Tomiyama, T.; Lake, D.; Masuho, Y.; Hersh, E. M. Recognition of human immunodeficiency virus glycoproteins by natural anti-carbohydrate antibodies in human serum; <i>Biochem Biophys Res Commun</i> 1991, 177, 279-285.	
	AZ	Cunto-Amesty, G.; Dam, T. K.; Luo, P.; Monzavi-Karbassi, B.; Brewer, C. F.; Van Cott, T. C.; Kieber-Emmons, T. Directing The immune response to carbohydrate antigens. <i>J Biol Chem</i> 2001, 276, 30490-30498.	
	BA	Ezekowitz, R. A.; Kuhlman, M.; Groopman, J. E.; Bym, R. A. A human serum mannose-binding protein inhibits in vitro infection by tile human immunodeficiency virus. <i>J Exp Med</i> 1989, 169, 185-196.	
	BB	Hansen, J. E.; Nielsen, C. M.; Nielsen, C.; Heegaard, P.; Mathiesen, L. R.; Nielsen, J. O. Correlation between carbohydrate structures on the envelope glycoprotein gp120 of HIV-1 and HIV-2 and syncytium inhibition with lectins. <i>Aids</i> 1989, 3, 635-641.	
	BC	Balzarini, J.; Schols, D.; Neyts, J.; Van Damme, E.; Peumans, W.; De Clercq, E. Alpha-(1-3)- and alpha-(1-6)-D-mannose-specific plant lectins are markedly inhibitory to human immunodeficiency virus and cytomegalovirus infections in vitro. <i>Antimicrob Agents Chemother</i> 1991, 35, 4104-16.	
	BD	Garategno, L.; Ramdani, A.; Jouault, T.; Saffar, L.; Gluckman, J. C. Lectin-carbohydrate interactions and infectivity of human immunodeficiency virus type 1 (HIV-1) <i>AIDS Res Hum Retroviruses</i> 1992, 8, 27-37.	
	BE	Hammar, L.; Hirsch, I.; Machado, A. A.; De Mareuil J.; Baillon, J. G.; Bolmont, C.; Chermann, J. C. Lectin-mediated effects on HIV type 1 infection in vitro. <i>AIDS Res Hum Retroviruses</i> 1995, 11, 87-95.	
	BF	Saifuddin, M.; Hart, M. L.; Gewurz, H.; Zhang, Y.; Spear, G. T. Interaction of mannose-binding lectin with primary isolates of human immunodeficiency virus type 1. <i>J Gen Virol</i> 2000, 81, 949-955.	
	BG	Boyd, M. R.; Gustafson, K. R.; McMahon, J. B.; Shoemaker, W. H.; OKeefe, B. R.; Mori, T.; Gulakowski, R. J.; Wu, L.; Rivera, M. I.; Laurencot, C. M.; Currens, M. J.; Cardellina, J. H., 2nd; Buckheit, R. W., Jr.; Nara, P. L.; Pannell, L. K.; Sowder, R. C., 2nd; Henderson, L. E. Discovery of cyanovirin-N, a novel human immunodeficiency virus- inactivating protein that binds viral surface envelope glycoprotein gp120: potential applications to microbicide development. <i>Antimicrob Agents Chemother</i> 1997, 41, 1521-1530.	
/NK/	BH	Dey, B.; Lemer, D. L.; Lusso, P.; Boyd, M. R.; Elder, J. H.; Berger, E. A. Multiple antiviral activities of cyanovirin-N: blocking of human immunodeficiency virus type 1 gp120 interaction with CD4 and coreceptor and inhibition of diverse enveloped viruses. <i>J Virol</i> 2000, 74, 4562-4569.	

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/NK/	BI	Bewley, C. A. Solution structure of a cyanovirin-N:Man alpha 1-2Man alpha complex: structural basis for high-affinity carbohydrate-mediated binding to gp120. <i>Structure (Camb)</i> 2001, 9, 931-940.	
	BJ	Bewley, C. A.; Otero-Quintero, S. The potent anti-HIV protein cyanovirin-N contains two novel carbohydrate binding sites that selectively bind to Man(8) D1D3 and Man(9) with nanomolar affinity implications for binding to the HIV envelope protein gp120. <i>J Am Chem Soc</i> 2001, 123, 3892-3902.	
	BK	Bolmstedt, A. J.; O'Keefe, B. R.; Shenoy, S. R.; McMahon, J. B.; Boyd, M. R. Cyanovirin-N defines a new class of antiviral agent targeting N-linked, high-mannose glycans in an oligosaccharide-specific manner. <i>Mol Pharmacol</i> 2001, 59, 949-954.	
	BL	Geijtenbeek, T. B.; Kwon, D. S.; Torensma, R.; van Vliet, S. J.; van Duijnhoven, G. C.; Middel, J.; Cornelissen, I. L.; Nottet, H. S.; KewalRamani, V. N.; Littman, D. R.; Figdor, C.G.; van Kooyk, Y. DC-SIGN, a dendritic cell-specific HIV-1-binding protein that enhances trans-infection of T cells. <i>Cell</i> 2000, 100, 587-597.	
	BM	Geijtenbeek, T. B.; Torensma, R.; van Vliet, S. J.; van Duijnhoven, G. C.; Adema, G. J.; van Kooyk, Y.; Figdor, C. G. Identification of DC-SIGN, a novel dendritic cell-specific ICAM-3 receptor that supports primary immune responses. <i>Cell</i> 2000, 100, 575-585.	
	BN	Pohlmann, S.; Soilleux, E. J.; Baribaud, F.; Leslie, G. J.; Morris, L. S.; Trowsdale, J.; Lee, B.; Coleman, N.; Doms, R. W. DC-SIGNR, a DC-SIGN homologue expressed in endothelial cells, binds to human and simian immunodeficiency viruses and activates infection in trans. <i>Proc Natl Acad Sci USA</i> 2001, 98, 2670-2675.	
	BO	Feinberg, H.; Mitchell, D. A.; Drickamer, K.; Weis, W. I. Structural basis for selective recognition of oligosaccharides by DC-SIGN and DC-SIGNR. <i>Science</i> 2001, 294, 2163-2166.	
	BP	Wang, L. X.; Ni, J.; Singh, S. Carbohydrate-centered maleimide cluster as a new type of templates for multivalent peptide assembling: Synthesis of multivalent HIV-1 gp41 peptides. <i>Bioorg. Med. Chem.</i> 2002, in press.	
	BQ	Kudryashov, V.; Kim, H. M.; Ragupathi, G.; Danishefsky, S. J.; Livingston, P.O.; Lloyd, K. O. Immunogenicity of synthetic conjugates of Lewis(y) oligosaccharide with proteins in mice: towards the design of anticancer vaccines. <i>Cancer Immunol Immunother</i> 1998, 45, 281-286.	
	BR	Slovin, S. F.; Ragupathi, G.; Adluri, S.; Ungers, G.; Terry, K.; Kim, S.; Spassova, M.; Bornmann, W. G.; Fazzari, M.; Dantis, L.; Olkiewicz, K.; Lloyd, K. O.; Livingston, P. O.; Danishefsky, S. J.; Scher, H. I. Carbohydrate vaccines in cancer: immunogenicity of a fully synthetic globo H hexasaccharide conjugate in man. <i>Proc Natl Acad Sci USA</i> 1999, 96, 5710-5715.	
↓	BS	Wang, Z. O.; Williams, L. J.; Zhang, X. F.; Zatorski, A.; Kudryashov, V.; Ragupathi, G.; Spassova, M.; Borumarm, W.; Slovin, S. F.; Scher, H. I.; Livingston, P.O.; Lloyd, K. O.; Danishefsky, S. J. Polyclonal antibodies from patients immunized with a globo H-keyhole limpet hemocyanin vaccine: isolation, quantification, and characterization of immune responses by using totally synthetic immobilized tumor antigens. <i>Proc Natl Acad Sci USA</i> 2000, 97, 2719-2724.	
/NK/	BT	Feinberg, H.; Mitchell, D. A.; Drickamer, K.; Weis, W. I. Structural basis for selective recognition of oligosaccharides by DC-SIGN and DC-SIGNR. <i>Science</i> 2001, 294, 2163-2166.	

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/NK/	BU	Wang, L. X.; Ni, J.; Singh, S. Carbohydrate-centered maleimide cluster as a new type of templates for multivalent peptide assembling: Synthesis of multivalent HIV-1 gp41 peptides. <i>Bioorg. Med.Chem.</i> 2002, <i>in press</i> .	
	BV	Kudryashov, V.; Kim, H. M.; Ragupathi, G.; Danishefsky, S. J.; Livingston, P.O.; Lloyd, K. O. Immunogenicity of synthetic conjugates of Lewis(y) oligosaccharide with proteins in mice: towards the design of anticancer vaccines. <i>Cancer Immunol Immunother</i> 1998, 45, 281-286.	
	BW	Slovin, S. F.; Ragupathi, G.; Adluri, S.; Ungers, G.; Terry, K.; Kim, S.; Spassova, M.; Bornmann, W. G.; Fazzari, M.; Dantis, L.; Olkiewicz, K.; Lloyd, K. O.; Livingston, P. O.; Danishefsky, S. J.; Scher, H. I. Carbohydrate vaccines in cancer: immunogenicity of a fully synthetic globo H hexasaccharide conjugate in man. <i>Proc Natl Acad Sci USA</i> 1999, 96, 5710-5715.	
	BX	Wang, Z. O.; Williams, L. J.; Zhang, X. F.; Zatorski, A.; Kudryashov, V.; Ragupathi, G.; Spassova, M.; Bornmann, W.; Slovin, S. F.; Scher, H. I.; Livingston, P.O.; Lloyd, K. O.; Danishefsky, S. J. Polyclonal antibodies from patients immunized with a globo H-keyhole limpet hemocyanin vaccine: isolation, quantification, and characterization of immune responses by using totally synthetic immobilized tumor antigens. <i>Proc Natl Acad Sci USA</i> 2000, 97, 2719-2724.	
	BY	Sabbatini, P. J.; Kudryashov, V.; Ragupathi, G.; Danishefsky, S. J.; Livingston, P.O.; Bornmann, W.; Spassova, M.; Zatorski, A.; Spriggs, D.; Aghajanian, C.; Soignet, S.; Peyton, M.; O'Flaherty, C.; Curtin, J.; Lloyd, K. O. Immunization of ovarian cancer patients with a synthetic Lewis (y)- protein conjugate vaccine: a phase I trial. <i>Int J Cancer</i> 2000, 87, 79-85.	
	BZ	Danishefsky, S. J.; Allen, J. W. From the laboratory to the clinic: A retrospective on fully synthetic carbohydrate-based anticancer vaccines. <i>Angew. Chem. Int. Ed Engl.</i> 2000, 39, 836-863.	
	CA	Kudryashov, V.; Glunz, P. W.; Williams, L. J.; Hintermann, S.; Danishefsky, S. J.; Lloyd, K. O. Toward optimized carbohydrate-based anticancer vaccines: epitope clustering, carrier structure, and adjuvant all influence antibody responses Lewis (y) conjugates in mice. <i>Proc Natl Acad Sci USA</i> 2001, 98, 3264-3269.	
	CB	Gilewski, T.; Ragupathi, G.; Bhuta, S.; Williams, L. J.; Musselli, C.; Zhang, X. F.; Bencsath, K. P.; Panageas, K. S.; Chin, J.; Hudis, C. A.; Norton, L.; Houghton, A. N.; Livingston, P.O.; Danishefsky, S. J. Immunization of metastatic breast cancer patients with a fully synthetic globo H conjugate: a phase I trial. <i>Proc Natl Acad Sci USA</i> 2001, 98, 3270-3275.	
	CC	Allen, J. R.; Harris, C. R.; Danishefsky, S. J. Pursuit of optimal carbohydrate-based anticancer vaccines: preparation of a multiantigenic unimolecular glycopeptide containing the Tn, MBrI, and Lewis (y) antigens. <i>J Am Chem Soc.</i> 2001, 123, 1890-1897.	
↓	CD	Ragupathi, G.; Cappello, S.; Yi, S. S.; Canter, D.; Spassova, M.; Bornmann, W. G.; Danishefsky, S. J.; Livingston, P.O. Comparison of antibody titers after immunization with monovalent or tetravalent KLH conjugate vaccines. <i>Vaccine</i> 2002, 20, 1030-1038.	
/NK/	CE	Morley, S. L.; Pollard, A. J. Vaccine prevention of meningococcal disease, coining soon? <i>Vaccine</i> 2001, 20, 666-687.	

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/NK/	CF	Lis, H.; Sharon, N. Soybean agglutinin--a plant glycoprotein. Structure of the carbohydrate unit. <i>J Biol Chem</i> 1978, 253, 3468-3476.	
	CG	Dorland, L.; van Halbeek, H.; Vleigenthart, J. F.; Lis, H.; Sharon, N. Primary structure of the carbohydrate chain of soybean agglutinin. A reinvestigation by high resolution ¹ H NMR spectroscopy. <i>J Biol Chem</i> 1981, 256, 7708-7711.	
	CH	Wang, L. X.; Fang, J. Q.; Lee, Y. C. Chemoenzymatic synthesis of a high-mannose-type N-glycopeptide analog with C-glycosidic linkage. <i>Tetrahedron Lett.</i> 1996, 37, 1975-1978.	
	CI	Wang, L. X.; Tang, M.; Suzuki, T.; Kitajima, K.; Inoue, Y.; Inoue, S.; Fang, J. Q.; Lee, Y. C. Combined chemical and enzymatic synthesis of a C-glycopeptide and its inhibitory activity toward glycoamidases. <i>J Am. Chem. Soc.</i> 1997, 119, 11137-11146.	
	CJ	Ni, J.; Singh, S.; Wang, L. X. Improved preparation of perallylated cyclodextrins: facile synthesis of cyclodextrin-based polycationic and polyanionic compounds. <i>Carbohydr Res</i> 2002, 337, 217-220.	
	CK	Sprengard, Ux.; Kretzschmar, G.; Bartnik, E.; Huls, C.; Kunz, H. Synthesis of an RGD-sialyl-Lewis glycoconjugates: A new highly active ligand for P-selectin. <i>Angew Chem.Intl. Ed Engl</i> 1995, 34, 990-993.	
	CL	Cohen-Anisfeld, S. T.; Lansbury Jr., P. T. A practical, convergent method for glycopeptide synthesis. <i>J Am. Chem. Soc.</i> 1993, 115, 10531-10537.	
	CM	Helling, F.; Shang, A.; Calves, M.; Zhang, S.; Ren, S.; Yu, R. K.; Oettgen, H. F.; Livingston, P.O. GD3 vaccines for melanoma: superior immunogenicity of keyhole limpet hemocyanin conjugate vaccines. <i>Cancer Res</i> 1994, 54, 197-203.	
	CN	Helling, F.; Zhang, S.; Shang, A.; Adluri, S.; Calves, M.; Koganty, R.; Longenecker, B. M.; Yao, T. J.; Oettgen, H. F.; Livingston, P.O. GM2-KLH conjugate vaccine: increased immunogenicity in melanoma patients after administration with immunological adjuvant QS-21. <i>Cancer Res</i> 1995, 55, 2783-2788.	
	CO	Kensil, C. R.; Patel, U.; Lennick, M.; Marciani, D. Separation and characterization of saponins with adjuvant activity from Quillaja saponaria Molina cortex. <i>J Immunol</i> 1991, 146, 431-437.	
	CP	Pal, R.; DeVico, A.; Rittenhouse, S.; Sarngadharan, M. G. Conformational perturbation of the envelope glycoprotein gp120 of human immunodeficiency virus type 1 by soluble CD4 and the lectin succinyl Con A. <i>Virology</i> 1993, 194, 833-837.	
	CQ	DeVico, A. L.; Rahman, R.; Welch, J.; Crowley, R.; Lusso, P.; Sarngadharan, M. G.; Pal, R. Monoclonal antibodies raised against covalently crosslinked complexes of human immunodeficiency virus type 1 gp120 and CD4 receptor identify a novel complex-dependent epitope on gp 120. <i>Virology</i> 1995, 211, 583-588.	
	CR	Fouts, T. R.; Tuskan, R. G.; Chada, S.; Hone, D. M.; Lewis, G. K. Construction and immunogenicity of Salmonella typhimurium vaccine vectors that express HIV-1 gp120. <i>Vaccine</i> 1995, 13, 1697-1705.	
✓	CS	Dear, E. S.; Li, X. L.; Moodily, T.; Ho, D. D. High concentrations of recombinant soluble CD4 are required to neutralize primary human immunodeficiency virus type 1 isolates. <i>Proc. Natl. Acad. Sci. U S A.</i> 1990, 87, 6574-6578.	
/NK/	CT	Connor, R. I.; Sheridan, K. B.; Ceradini, D.; Choe, S.; Landau, N. R. Change in coreceptor use coreceptor use correlates with disease progression in HIV - 1 infected individuals. <i>J. Exp. Med</i> 1997, 185,621-628.	

Examiner signature	/Nicole Kinsey/	Date Considered	01/29/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 7 of 7

COMPLETE IF KNOWN

Application Number	10/531,124
Filing Date	April 11, 2005
First Named Inventor	WANG, Lai-Xi
Art Unit	1648
Examiner Name	Unassigned
Attorney Docket Number	4115-189

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/NK/	CU	Connor, R. I.; Mohri, H.; Cao, Y.; Ho, D. D. Increased viral burden and cytopathicity correlate temporally with CD4+ T-lymphocyte decline and clinical progression in human immunodeficiency virus type 1-infected individuals. <i>J Virol</i> 1993, 67, 1772-1777.	
	CV	Vujcic, L. K.; Quinnan, G. V., Jr. Preparation and characterization of human HIV type 1 neutralizing reference sera. <i>AIDS Res. Hum. Retroviruses</i> , 1995, 11, 783-787.	
	CW	a) Turnbull, W. B.; Stoddatt, J. F., J. <i>Biotechnol.</i> 2002,90,231-255. b) Lindhorst, T. K., <i>Topics in Curr. Chem.</i> 2002,218, 200-235. (c) Roy, R., <i>Curr. Opin. Struct. Biol.</i> 1996, 6, 692-702.	
	CX	Kitov, P.I.; Sadowska, J. M.; Mulvey, G.; Armstrong, G. D.; Ling, H.; Pannu, N. S.; Read, R. J.; Bundle, D. R., <i>Nature</i> 2000, 403, 669-672.	
	CY	Wang, L. x.; Ni, J.; Singh, S., <i>Bioorg. Med Chem.</i> 2002, <i>in press</i> .	
	CZ	Lis, H.; Sharon, N., <i>J Biol. Chem.</i> 1978, 253, 3468-3476.	
	DA	Duncan, R. J.; Weston, P. D.; Wrigglesworth, R., <i>Anal. Biochem.</i> 1983, 132, 68-73.	
	DB	Mizuochi, T., Matthews, T. J., Kato, M., Hamako, J., Titani, K., Solomon, J., and Feizi, T. (1990) <i>J Biol Chem</i> 265, 8519-8524.	
	DC	Geyer, H., Holschbach, C., Hunsmann, G., and Schneider, J. (1988) <i>J Biol Chem</i> 263, 11760-11767.	
	DD	Zhu, X., Borchers, C., Bienstock, R. J., and Tomer, K. B. (2000) <i>Biochemistry</i> 39, 11194-11204.	
	DE	Fujita, K., Tanaka, N., Sano, M., Kato, I., Asada, Y., and Takegawa, K. (2000) <i>Biochem. Biophys. Res. Commun.</i> 267, 134-138.	
	DF	Huang, C. C., Mayer, H. E., and Montgomery, R. (1970) <i>Carbohydr. Res.</i> 13, 127-137.	
	DG	Sanders, R. W., Venturi, M., Schiffner, L., Kalyanaraman, R., Katinger, H., Lloyd, K. O., Kwong, P. D., and Moore, J. P. (2002) <i>J Virol</i> 76, 7293-7305.	
	DH	Scanlan, C. N., Pantophlet, R., Wormald, M. R., Ollmann Saphire, E., Stanfield, R., Wilson, I. A., Katinger, H., Dwek, R. A., Rudd, P. M., and Burton, D. R. (2002) <i>J Virol</i> 76, 7306-7321.	
	DI	Wang, L. X., Ni, J., and Singh, S. (2003) <i>Bioorg. Med. Chem.</i> 11, 129-136.	
	DJ	Ni, J., Singh, S., and Wang, L. X. (2003) <i>Bioconj Chem</i> 14, 232-238.	
/NK/	DK	Duncan, R. J., Weston, P. D., and Wrigglesworth, R. (1983) <i>Anal Biochem</i> 132, 68-73.	

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/Nicole Kinsey/

Date
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01/29/2008

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10531124
	Filing Date		2005-04-11
	First Named Inventor	Lai-Xi Wang	
	Art Unit	1648	
	Examiner Name	Emily M. Le	
Attorney Docket Number		014835-178.02-011	

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/NK/	1	ANN CHAPMAN et al.; Structure of the High Mannose Oligosaccharides of a Human IgM Myeloma Protein; The Journal of Biological Chemistry; February 10, 1979; pp. 816-823; Vol. 254, No. 3; USA	<input type="checkbox"/>
↓	2	KIMIYASU SHIRAKI et al.; Processing of hepatitis B virus surface antigen expressed by recombinant Oka varicella vaccine virus; Journal of General Virology; 1992; pp. 1401-1407; 73; Great Britain	<input type="checkbox"/>
↓	3	JOHN-ERIK S. HANSEN et al.; Inhibition of Human Immunodeficiency Virus (HIV) Infection In Vitro by Anticarbhydrate Monoclonal Antibodies: Peripheral Glycosylation of HIV Envelope Glycoprotein gp120 May Be a Target for Virus Neutralization; Journal of Virology; June 1990; pp. 2833-2840; Vol. 64, No. 6; American Society of Microbiology	<input type="checkbox"/>
↓	4	CHRISTOPHER N. SCANLAN et al.; The Broadly Neutralizing Anti-Human Immunodeficiency Virus Type 1 Antibody 2G12 Recognizes a Cluster of a1-2 Mannose Residues on the Outer Face of gp120; Journal of Virology; July 2002; pp. 7306-7321; Vol. 76, No. 14; American Society for Microbiology	<input type="checkbox"/>
/NK/	5	YUKO NAKAHARA et al.; Rationally designed synthesis of high-mannose and complex type undecasaccharides; Carbohydrate Research; 1996; pp. 67-84; 280; Elsevier Science Ltd.	<input type="checkbox"/>

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT Sheet 1 of 1	<i>COMPLETE IF KNOWN</i>	
	Application Number	10/531,124
	Filing Date	April 11, 2005
	First Named Inventor	WANG, Lai-Xi
	Art Unit	1648
	Examiner Name	Le, Emily M.
	Attorney Docket Number	4115-189

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/NK/	DL	CALARESE, et al., Antibody Domain Exchange Is an Immunological Solution to Carbohydrate Cluster Recognition. <i>Science</i> , June 27, 2003, pp. 2065-2071, Vol. 300.	
/NK/	DM	DUDKIN, et al., Toward Fully Synthetic Carbohydrate-Based HIV Antigen Design: On the Critical Role of Bivalency. <i>J. Am. Chem. Soc.</i> (Communication), 2004, pp. 9560-9562, Vol. 126.	

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